

VERSION WITH MARKINGS TO SHOW CHANGES MADE**In the Specification:**

The paragraph beginning at line 16 of page five has been amended as follows:

An illustrative block diagram of the semiconductor circuit showing the sensor electronics 50 is provided in Fig. 3. Therein, the sensor electronics 50 includes an oscillator 52 for providing a square wave voltage signal. The oscillator 52 is coupled to the transmission line 46 for providing the square wave voltage signal thereto. A phase detector 54 is coupled to the oscillator 52 and the transmission line 46 to detect the difference in phase between the reference square wave voltage signal and the signal provided to the transmission line. The details of components included in each of these three blocks are show in Fig. 4, along with a buffer block 53 which buffers the square wave signal from the oscillator to the transmission line.

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